

## WEST Search History

DATE: Wednesday, February 04, 2004

| Hide?                    | Set Name | Query   | Hit Count |
|--------------------------|----------|---|-----------|
|                          |          | <i>DB=USPT; PLUR=YES; OP=OR</i>                     |           |
| <input type="checkbox"/> | L7       | L6 not l5   | 51        |
| <input type="checkbox"/> | L6       | L4 and (\$deoxyerythronolide or 6deb)               | 76        |
|                          |          | <i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i> |           |
| <input type="checkbox"/> | L5       | L4 and (\$deoxyethronolide or 6deb)                 | 25        |
| <input type="checkbox"/> | L4       | L3 and erythromycin                                 | 144       |
| <input type="checkbox"/> | L3       | L2  | 193       |
|                          |          | <i>DB=USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>      |           |
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|                          |          | <i>DB=USPT; PLUR=YES; OP=OR</i>                     |           |
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END OF SEARCH HISTORY

09/870012  
STN Search Summary

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FILE 'CAPLUS' ENTERED AT 10:17:51 ON 04 FEB 2004

L1 762 S ERYTHRAE?  
L2 3 S L1 AND ERYTHROMYCIN AND (6DEB OR ?DEOXYETHRONOLIDE)  
L3 62 S L1 AND ERYTHROMYCIN AND (6DEB OR ?DEOXYERYTHRONOLIDE)  
L4 35 S L3 AND PD<2000

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:348742 CAPLUS  
TI Combinatorial polyketide libraries produced using a modular polyketide synthase gene cluster as scaffold  
IN Khosla, Chaitan; Kao, Camilla M.  
SO U.S., 59 pp., Cont.-in-part of U.S. 6,391,594.

|    | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE         |
|----|---------------|------|----------|-----------------|--------------|
| PI | US 6558942    | B1   | 20030506 | US 1998-73538   | 19980506     |
|    | US 5672491    | A    | 19970930 | US 1994-238811  | 19940506 <-- |
|    | US 5712146    | A    | 19980127 | US 1995-486645  | 19950607 <-- |
|    | US 2002034797 | A1   | 20020321 | US 1997-846247  | 19970430     |
|    | US 6391594    | B2   | 20020521 |                 |              |
|    | US 6117659    | A    | 20000912 | US 1999-320878  | 19990527     |
|    | US 6509455    | B1   | 20030121 | US 2000-657440  | 20000907     |
|    | US 2003104597 | A1   | 20030605 | US 2001-793708  | 20010222     |
|    | US 2003040084 | A1   | 20030227 | US 2001-852416  | 20010509     |
|    | US 2002068332 | A1   | 20020606 | US 2001-859854  | 20010516     |
|    | US 2003148469 | A1   | 20030807 | US 2002-201365  | 20020722     |
|    | US 2003170725 | A1   | 20030911 | US 2002-213926  | 20020806     |
|    | US 2003194785 | A1   | 20031016 | US 2003-340139  | 20030110     |

L4 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:344124 CAPLUS  
TI Novel polyketide production by ketosynthase inactivation in a \*\*\*erythromycin\*\*\* polyketide synthase gene cluster  
IN Khosla, Chaitan; Pieper, Rembert; Luo, Guanglin; Cane, David E.; Kao, Camilla  
SO U.S., 9 pp., Cont.-in-part of U.S. Ser. No. 675,817.

|    | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE         |
|----|---------------|------|----------|-----------------|--------------|
| PI | US 6066721    | A    | 20000523 | US 1997-896323  | 19970717     |
|    | US 6080555    | A    | 20000627 | US 1996-675817  | 19960705     |
|    | WO 9903986    | A2   | 19990128 | WO 1998-US14911 | 19980717 <-- |
|    | WO 9903986    | A3   | 19990408 |                 |              |
|    | AU 9884123    | A1   | 19990210 | AU 1998-84123   | 19980717 <-- |
|    | AU 736972     | B2   | 20010809 |                 |              |
|    | EP 996714     | A2   | 20000503 | EP 1998-934641  | 19980717     |
|    | JP 2001510038 | T2   | 20010731 | JP 2000-503192  | 19980717     |
|    | NZ 502360     | A    | 20011130 | NZ 1998-502360  | 19980717     |
|    | BR 9813004    | A    | 20020205 | BR 1998-13004   | 19980717     |
|    | US 6500960    | B1   | 20021231 | US 1999-311756  | 19990514     |
|    | US 6274560    | B1   | 20010814 | US 1999-374711  | 19990813     |
|    | US 6261816    | B1   | 20010717 | US 1999-434289  | 19991105     |
|    | US 6531299    | B1   | 20030311 | US 2000-603083  | 20000626     |
|    | US 2003040084 | A1   | 20030227 | US 2001-852416  | 20010509     |
|    | US 2001024811 | A1   | 20010927 | US 2001-870012  | 20010529     |

|      |                 |    |          |                |          |
|------|-----------------|----|----------|----------------|----------|
|      | US 2003068677   | A1 | 20030410 | US 2002-96724  | 20020312 |
|      | US 2003077760   | A1 | 20030424 | US 2002-96789  | 20020312 |
|      | US 2003077707   | A1 | 20030424 | US 2002-96790  | 20020312 |
|      | US 2003194785   | A1 | 20031016 | US 2003-340139 | 20030110 |
| PRAI | US 1995-3338P   | P  | 19950706 |                |          |
|      | US 1996-675817  | A2 | 19960705 |                |          |
|      | US 1993-123732  | B2 | 19930920 |                |          |
|      | US 1993-164301  | B2 | 19931208 |                |          |
|      | US 1994-238811  | A2 | 19940506 |                |          |
|      | US 1995-486645  | A2 | 19950607 |                |          |
|      | US 1997-846247  | A2 | 19970430 |                |          |
|      | US 1997-896323  | A  | 19970717 |                |          |
|      | US 1997-949943  | A3 | 19971014 |                |          |
|      | US 1998-76919P  | P  | 19980305 |                |          |
|      | US 1998-73538   | A1 | 19980506 |                |          |
|      | WO 1998-US14911 | W  | 19980717 |                |          |
|      | US 1998-164306  | A1 | 19981001 |                |          |
|      | US 1999-264162  | A1 | 19990305 |                |          |
|      | US 1999-311756  | A2 | 19990514 |                |          |
|      | US 1999-434289  | A3 | 19991105 |                |          |
|      | US 2001-755653  | A1 | 20010105 |                |          |

L4 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:66007 CAPLUS

TI Manufacture of substituted \*\*\*erythromycins\*\*\* with transgenic  
Saccharopolyspora using a carboxylic acid-contg. medium

IN Leadlay, Peter Francis; Staunton, James; Cortes, Jesus; Pacey, Michael  
Stephen

SO PCT Int. Appl., 97 pp.

|    | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE         |
|----|---------------|------|----------|-----------------|--------------|
|    | -----         | ---- | -----    | -----           | -----        |
| PI | WO 9801571    | A2   | 19980115 | WO 1997-GB1810  | 19970704 <-- |
|    | WO 9801571    | A3   | 19980219 |                 |              |
|    | CA 2259420    | AA   | 19980115 | CA 1997-2259420 | 19970704 <-- |
|    | CA 2259463    | AA   | 19980115 | CA 1997-2259463 | 19970704 <-- |
|    | AU 9734509    | A1   | 19980202 | AU 1997-34509   | 19970704 <-- |
|    | AU 731301     | B2   | 20010329 |                 |              |
|    | EP 909327     | A2   | 19990421 | EP 1997-930626  | 19970704 <-- |
|    | GB 2331518    | A1   | 19990526 | GB 1999-156     | 19970704 <-- |
|    | GB 2331518    | B2   | 20010314 |                 |              |
|    | CN 1229438    | A    | 19990922 | CN 1997-197649  | 19970704 <-- |
|    | BR 9710209    | A    | 20000111 | BR 1997-10209   | 19970704     |
|    | NZ 333861     | A    | 20000825 | NZ 1997-333861  | 19970704     |
|    | JP 2000516450 | T2   | 20001212 | JP 1998-504925  | 19970704     |
|    | AP 1029       | A    | 20011211 | AP 1999-1444    | 19970704     |
|    | EE 3976       | B1   | 20030217 | EE 1999-14      | 19970704     |
|    | WO 9854308    | A2   | 19981203 | WO 1998-GB1559  | 19980528 <-- |
|    | WO 9854308    | A3   | 19990408 |                 |              |
|    | AU 9876661    | A1   | 19981230 | AU 1998-76661   | 19980528 <-- |
|    | EP 983348     | A2   | 20000308 | EP 1998-924463  | 19980528     |
|    | NO 9900012    | A    | 19990223 | NO 1999-12      | 19990104 <-- |
|    | KR 2000023579 | A    | 20000425 | KR 1999-700024  | 19990105     |
|    | US 6271255    | B1   | 20010807 | US 1999-214454  | 19990916     |
|    | US 2001016598 | A1   | 20010823 |                 |              |
|    | US 2002004487 | A1   | 20020110 | US 2001-896357  | 20010629     |
|    | US 6437151    | B2   | 20020820 |                 |              |
|    | US 2003104585 | A1   | 20030605 | US 2002-307595  | 20021202     |

PRAI GB 1996-14189 A 19960705  
 US 1996-24188P P 19960819  
 GB 1997-10962 A 19970528  
 WO 1997-GB1810 W 19970704  
 WO 1998-GB1559 W 19980528  
 US 1999-214454 A3 19990916  
 US 1999-424751 A1 19991129

OS MARPAT 128:139812

L4 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:65985 CAPLUS

TI Polyketides and their synthesis in Streptomyces strains transformed with hybrid type I polyketide synthases

IN Leadlay, Peter Francis; Staunton, James; Cortes, Jesus

PA Biotica Technology Ltd., UK

SO PCT Int. Appl., 177 pp.

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |     |
|------|----------------|------|----------|-----------------|----------|-----|
| PI   | WO 9801546     | A2   | 19980115 | WO 1997-GB1819  | 19970704 | <-- |
|      | WO 9801546     | A3   | 19980409 |                 |          |     |
|      | CA 2259420     | AA   | 19980115 | CA 1997-2259420 | 19970704 | <-- |
|      | CA 2259463     | AA   | 19980115 | CA 1997-2259463 | 19970704 | <-- |
|      | AU 9734514     | A1   | 19980202 | AU 1997-34514   | 19970704 | <-- |
|      | AU 731654      | B2   | 20010405 |                 |          |     |
|      | EP 910633      | A2   | 19990428 | EP 1997-930631  | 19970704 | <-- |
|      | CN 1229438     | A    | 19990922 | CN 1997-197649  | 19970704 | <-- |
|      | JP 2000511063  | T2   | 20000829 | JP 1998-504933  | 19970704 |     |
|      | WO 9854308     | A2   | 19981203 | WO 1998-GB1559  | 19980528 | <-- |
|      | WO 9854308     | A3   | 19990408 |                 |          |     |
|      | AU 9876661     | A1   | 19981230 | AU 1998-76661   | 19980528 | <-- |
|      | EP 983348      | A2   | 20000308 | EP 1998-924463  | 19980528 |     |
|      | KR 2000023579  | A    | 20000425 | KR 1999-700024  | 19990105 |     |
|      | US 2002004487  | A1   | 20020110 | US 2001-896357  | 20010629 |     |
|      | US 6437151     | B2   | 20020820 |                 |          |     |
|      | US 2003104585  | A1   | 20030605 | US 2002-307595  | 20021202 |     |
| PRAI | GB 1996-14189  | A    | 19960705 |                 |          |     |
|      | US 1996-24188P | P    | 19960819 |                 |          |     |
|      | GB 1997-10962  | A    | 19970528 |                 |          |     |
|      | WO 1997-GB1819 | W    | 19970704 |                 |          |     |
|      | WO 1998-GB1559 | W    | 19980528 |                 |          |     |
|      | US 1999-214454 | A3   | 19990916 |                 |          |     |
|      | US 1999-424751 | A1   | 19991129 |                 |          |     |

L4 ANSWER 10 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:682654 CAPLUS

TI The Molecular Basis of Celmer's Rules: The Stereochemistry of the Condensation Step in Chain Extension on the \*\*\*Erythromycin\*\*\* Polyketide Synthase

AU Weissman, Kira J.; Timoney, Maire; Bycroft, Matthew; Grice, Peter; Hanefeld, Ulf; Staunton, James; Leadlay, Peter F.

SO Biochemistry ( \*\*\*1997\*\*\* ), 36(45), 13849-13855

L4 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1997:677565 CAPLUS  
TI Acyltransferase domain substitutions in \*\*\*erythromycin\*\*\* polyketide  
synthase yield novel \*\*\*erythromycin\*\*\* derivatives  
AU Ruan, Xiaoan; Pereda, Ana; Stassi, Diane L.; Zeidner, David; Summers,  
Richard G.; Jackson, Marianna; Shivakumar, Annapur; Kakavas, Stephan;  
Staver, Michael J.; Donadio, Stefano; Katz, Leonard  
SO Journal of Bacteriology ( \*\*\*1997\*\*\* ), 179(20), 6416-6425

L4 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1997:667414 CAPLUS  
TI Biosynthesis of 2-nor-6- \*\*\*deoxyerythronolide\*\*\* B by rationally  
designed domain substitution  
AU Liu, Lu; Thamchaipenet, Arinthip; Fu, Hong; Betlach, Mary; Ashley, Gary  
SO Journal of the American Chemical Society ( \*\*\*1997\*\*\* ), 119(43),  
10553-10554

L4 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1995:721947 CAPLUS  
TI \*\*\*Erythromycin\*\*\* biosynthesis. Highly efficient incorporation of  
polyketide chain elongation intermediates into 6-  
\*\*\*deoxyerythronolide\*\*\* B in an engineered Streptomyces host  
AU Cane, David E.; Luo, Guanglin; Khosla, Chaitan; Kao, Camilla M.; Katz,  
Leonard  
SO Journal of Antibiotics ( \*\*\*1995\*\*\* ), 48(7), 647-51

L4 ANSWER 14 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1995:616785 CAPLUS  
TI Repositioning of a domain in a modular polyketide synthase to promote  
specific chain cleavage  
AU Cortes, Jesus; Wiesmann, Kirsten E. H.; Roberts, Gareth A.; Brown, Murray  
J. B.; Staunton, James; Leadlay, Peter F.  
SO Science (Washington, D. C.) ( \*\*\*1995\*\*\* ), 268(5216), 1487-89

L4 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1995:482527 CAPLUS  
TI Cloning and heterologous expression of the genes encoding nonspecific  
electron transport components for a cytochrome P450 system of  
Saccharopolyspora \*\*\*erythraea\*\*\* involved in \*\*\*erythromycin\*\*\*  
production  
AU Zotchev, Sergey B.; Hutchinson, C. R.  
SO Gene ( \*\*\*1995\*\*\* ), 156(1), 101-6

L4 ANSWER 16 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1994:403834 CAPLUS  
TI Limited proteolysis and active-site studies of the first multienzyme  
component of the \*\*\*erythromycin\*\*\* -producing polyketide synthase  
AU Aparicio, Jesus F.; Caffrey, Patrick; Marsden, Andrew F. A.; Staunton,  
James; Leadlay, Peter F.  
SO Journal of Biological Chemistry ( \*\*\*1994\*\*\* ), 269(11), 8524-8

L4 ANSWER 17 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1993:619166 CAPLUS  
TI Method of directing biosynthesis of specific polyketides  
IN Katz, Leonard; Donadio, Stefano; McAlpine, James B.  
PA Abbott Laboratories, USA  
SO PCT Int. Appl., 133 pp.

|      | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE         |
|------|---------------|------|----------|-----------------|--------------|
| PI   | WO 9313663    | A1   | 19930722 | WO 1992-US427   | 19920117 <-- |
|      | AU 9212450    | A1   | 19930803 | AU 1992-12450   | 19920117 <-- |
|      | AU 665526     | B2   | 19960111 |                 |              |
|      | EP 626806     | A1   | 19941207 | EP 1992-905082  | 19920117 <-- |
| PRAI | WO 1992-US427 |      | 19920117 |                 |              |

L4 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1991:486469 CAPLUS  
TI An \*\*\*erythromycin\*\*\* derivative produced by targeted gene disruption  
in Saccharopolyspora \*\*\*erythraea\*\*\*  
AU Weber, J. M.; Leung, J. O.; Swanson, S. J.; Idler, K. B.; McAlpine, J. B.  
SO Science (Washington, DC, United States) ( \*\*\*1991\*\*\* ), 252(5002),  
114-17

L4 ANSWER 30 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1987:529642 CAPLUS  
TI Macrolide antibiotic biosynthesis: isolation and properties of two forms  
of 6- \*\*\*deoxyerythronolide\*\*\* B hydroxylase from Saccharopolyspora  
\*\*\*erythraea\*\*\* (Streptomyces erythreus)  
AU Shafiee, Ali; Hutchinson, C. Richard  
SO Biochemistry ( \*\*\*1987\*\*\* ), 26(19), 6204-10

L4 ANSWER 32 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1984:64650 CAPLUS  
TI Macrolide biosynthesis - II. Origin of the carbon skeleton and oxygen  
atoms of the \*\*\*erythromycins\*\*\*  
AU Cane, David E.; Hasler, Heinz; Taylor, Paul B.; Liang, Tzyy Chyau  
SO Tetrahedron ( \*\*\*1983\*\*\* ), 39(21), 3449-55

L4 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1982:48072 CAPLUS  
TI Accumulation of 6- \*\*\*deoxyerythronolide\*\*\* B in a normal strain of  
Streptomyces erythreus and hydroxylation at C-6 of the erythranolide ring  
system by a soluble noninduced cell-free enzyme system  
AU Corcoran, John W.; Vygantas, Auste M.  
SO Biochemistry ( \*\*\*1982\*\*\* ), 21(2), 263-9

L4 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1981:529000 CAPLUS  
TI Macrolide biosynthesis. Origin of the oxygen atoms in the erythromycins  
AU Cane, David E.; Hasler, Heinz; Liang, Tzyy-Chyau  
SO Journal of the American Chemical Society ( \*\*\*1981\*\*\* ), 103(19), 5960-2

L4 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1967:54236 CAPLUS  
TI Biosynthesis of \*\*\*erythromycins\*\*\* . II. Isolation and structure of  
a biosynthetic intermediate, 6- \*\*\*deoxyerythronolide\*\*\* B  
AU Martin, Jerry Roy; Rosenbrook, William, Jr.  
SO Biochemistry ( \*\*\*1967\*\*\* ), 6(2), 435-40